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NEWS 2 "Ask CAS" for self-help around the clock
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NEWS 4 JAN 27 A new search aid, the Company Name Thesaurus, available in
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NEWS 5 FEB 05 German (DE) application and patent publication number format
changes
NEWS 6 MAR 03 MEDLINE and LMedline reloaded
NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 8 MAR 03 FRANCEPAT now available on STN
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NEWS 12 MAR 29 New monthly current-awareness alert (SDI) frequency in RAPRA

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
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=> s polyhydroxyalkanoate and anoxygenic and polyester

L1 5 POLYHYDROXYALKANOATE AND ANOXYGENIC AND POLYESTER

=> d l1 1-5 ti

L1 ANSWER 1 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI Forty years of microbial photosynthesis research: Where it came from and what it led to.

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TI ***Polyhydroxyalkanoates*** , biopolyesters from renewable resources: Physiological and engineering aspects.

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TI Effect of oligosaccharides on glucose consumption by Rhodobacter sphaeroides in ***polyhydroxyalkanoate*** production from enzymatically treated crude sago starch.

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TI Positive selection systems for discovery of novel ***polyester*** biosynthesis genes based on fatty acid detoxification.

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TI Analysis of polyhydroxyalkanoic acid-biosynthesis genes of ***anoxygenic*** phototrophic bacteria reveals synthesis of a ***polyester*** exhibiting an unusual composition

=> d l1 5 ibib ab

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ACCESSION NUMBER: 1994:451207 CAPLUS

DOCUMENT NUMBER: 121:51207

TITLE: Analysis of polyhydroxyalkanoic acid-biosynthesis genes of ***anoxygenic*** phototrophic bacteria reveals synthesis of a ***polyester*** exhibiting an unusual composition

AUTHOR(S): Liebergesell, Matthias; Mayer, Frank; Steinbuechel,

Alexander
CORPORATE SOURCE: Inst. Mikrobiol., Georg-August-Univ., Goettingen,
D-37077, Germany
SOURCE: Applied Microbiology and Biotechnology (1993),
40(2-3), 292-300
CODEN: AMBIDG; ISSN: 0175-7598
DOCUMENT TYPE: Journal
LANGUAGE: English

AB From genomic libraries of purple sulfur bacteria, fragments were cloned that encoded for proteins involved in the synthesis of poly(3-hydroxyalkanoic acids), PHA. A 12.5- and a 15.0- plus a 15.6-kbp EcoRI restriction fragment of *Ectothiorhodospira shaposhnikovii* or *Thiocapsa pfennigii*, resp., which hybridized with a fragment encoding the *Alcaligenes eutrophus* PHA-biosynthesis operon, were identified in λ .L47 libraries, whereas an 18.0-kbp EcoRI fragment of *Lamprocystis roseopersicina*, which phenotypically complemented a PHA-neg. mutant of *A. eutrophus*, was identified in a pVK100 cosmid library. Hybridization studies and enzymic anal. of crude exts. derived from transconjugants of *Escherichia coli* and *A. eutrophus* harboring these fragments revealed the presence of the genes for NADH-dependent acetoacetyl-CoA reductase and/or PHA synthase. The PHA-biosynthesis genes of *T. pfennigii* and *L. roseopersicina* as well as of *Chromatium vinosum*, *Thiocystis violacea*, *Rhodospirillum rubrum* and *Rhodobacter sphaeroides* were then analyzed for their ability to confer synthesis of PHA other than poly(3-hydroxybutyric acid) to PHA-neg. mutants of PHA-accumulating bacteria. The most striking result was that a fragment harboring the PHA-synthase gene of *T. pfennigii* conferred the ability to synthesize a polymer consisting of almost equimolar amts. of 3-hydroxybutyrate (48.5 mol%) and 3-hydroxyhexanoate (47.3 mol%) plus a small amt. of 3-hydroxyoctanoate (4.2 mol%) to a PHA-neg. mutant of *Pseudomonas putida*. A biosynthetic ***polyester*** with this compn. has not been described before.

=> FIL STNGUIDE

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